

Amendments to the Specification

Please replace paragraph [01] with the following rewritten paragraph:

[01] In commonly owned United States Patent Applications and Patents: (1) United States Patent Application Serial No. 09/916,232 ("the '232 application"), entitled "ARRANGEMENT OF COLOR PIXELS FOR FULL COLOR IMAGING DEVICES WITH SIMPLIFIED ADDRESSING," filed July 25, 2001, now issued as United States Patent 6,903,754; (2) United States Patent Application Serial-No. 10/278,353 ("the '353 application"), entitled "IMPROVEMENTS TO COLOR FLAT PANEL DISPLAY SUB-PIXEL ARRANGEMENTS AND LAYOUTS FOR SUB-PIXEL RENDERING WITH INCREASED MODULATION TRANSFER FUNCTION RESPONSE," filed October 22, 2002, and published as United States Patent Application Publication No. 2003/0128225; (3) United States Patent Application Serial-No. 10/278,352 ("the '352 application"), entitled "IMPROVEMENTS TO COLOR FLAT PANEL DISPLAY SUB-PIXEL ARRANGEMENTS AND LAYOUTS FOR SUB-PIXEL RENDERING WITH SPLIT BLUE SUB-PIXELS," filed October 22, 2002, and published as United States Patent Application Publication No. 2003/0128179; (4) United States Patent Application Serial-No. 10/243,094 ("the '094 application), entitled "IMPROVED FOUR COLOR ARRANGEMENTS AND EMITTERS FOR SUB-PIXEL RENDERING," filed September 13, 2002, and published as United States Patent Application Publication No. 2004/0051724; (5) United States Patent Application Serial-No. 10/278,328 ("the '328 application"), entitled "IMPROVEMENTS TO COLOR FLAT PANEL DISPLAY SUB-PIXEL ARRANGEMENTS AND LAYOUTS WITH REDUCED BLUE LUMINANCE WELL VISIBILITY," filed October 22, 2002, and published as United States Patent Application Publication No. 2003/0117423; (6) United States Patent Application Serial No. 10/278,393 ("the '393 application"), entitled "COLOR DISPLAY HAVING HORIZONTAL SUB-PIXEL ARRANGEMENTS AND LAYOUTS," filed October 22, 2002, and published as United States Patent Application Publication No. 2003/0090581; and (7) United States Patent Application Serial-No. [01]10/347,001 ("the '001 application") entitled "IMPROVED SUB-PIXEL ARRANGEMENTS FOR

STRIPED DISPLAYS AND METHODS AND SYSTEMS FOR SUB-PIXEL RENDERING SAME," filed January 16, 2003, and published as United States Patent Application Publication No. 2004/0080479, each of which is herein incorporated by reference in its entirety, novel sub-pixel arrangements are disclosed for improving the cost/performance curves for image display devices.

Please replace paragraph [02] with the following rewritten paragraph:

[02] For certain subpixel repeating groups having an even number of subpixels in a horizontal direction, the following systems and techniques to affect improvements, e.g. proper dot inversion schemes ~~and other improvements~~, are disclosed and these applications and patents are herein incorporated by reference: (1) United States Patent Application Serial Number 10/456,839 entitled "IMAGE DEGRADATION CORRECTION IN NOVEL LIQUID CRYSTAL DISPLAYS" and published as United States Patent Application Publication No. 2004/0246280; (2) United States Patent Application Serial No. 10/455,925 entitled "DISPLAY PANEL HAVING CROSSOVER CONNECTIONS EFFECTING DOT INVERSION" and published as United States Patent Application Publication No. 2004/0246213; (3) United States Patent Application Serial No. 10/455,931 entitled "SYSTEM AND METHOD OF PERFORMING DOT INVERSION WITH STANDARD DRIVERS AND BACKPLANE ON NOVEL DISPLAY PANEL LAYOUTS" and issued as United States Patent No. 7,218,301; (4) United States Patent Application Serial No. 10/455,927 entitled "SYSTEM AND METHOD FOR COMPENSATING FOR VISUAL EFFECTS UPON PANELS HAVING FIXED PATTERN NOISE WITH REDUCED QUANTIZATION ERROR" and issued as United States Patent No. 7,209,105; (5) United States Patent Application Serial No. 10/456,806 entitled "DOT INVERSION ON NOVEL DISPLAY PANEL LAYOUTS WITH EXTRA DRIVERS" and issued as United States Patent No. 7,187,353; and (6) United States Patent Application Serial No. 10/456,838 entitled "LIQUID CRYSTAL DISPLAY BACKPLANE LAYOUTS AND ADDRESSING FOR NON-STANDARD SUBPIXEL ARRANGEMENTS" and published as United States Patent Application Publication No. 2004/0246404; and (7) United States Patent Application Serial No. 10/696,236 entitled

"IMAGE DEGRADATION CORRECTION IN NOVEL LIQUID CRYSTAL DISPLAYS WITH SPLIT BLUE SUBPIXELS", filed October 28, 2003, and published as United States Patent Application Publication No. 2005/0083277; and (8) United States Patent Application Serial No. 10/807,604 entitled "IMPROVED TRANSISTOR BACKPLANES FOR LIQUID CRYSTAL DISPLAYS COMPRISING DIFFERENT SIZED SUBPIXELS", filed March 23, 2004 and published as United States Patent Application Publication No. 2005/02121741.

Please replace paragraph [03] with the following rewritten paragraph:

[03] These improvements are particularly pronounced when coupled with sub-pixel rendering (SPR) systems and methods further disclosed in those applications and in commonly owned United States Patent Applications and patents: (1) United States Patent Application Serial—No. 10/051,612 ("the '612 application"), entitled "~~CONVERSION OF RGB-PIXEL—A SUB-PIXEL~~ FORMAT DATA TO PENTILE MATRIX—ANOTHER SUB-PIXEL DATA FORMAT," filed January 16, 2002, and now issued as US Patent No. 7,123,277; (2) United States Patent Application Serial-No. 10/150,355 ("the '355 application"), entitled "METHODS AND SYSTEMS FOR SUB-PIXEL RENDERING WITH GAMMA ADJUSTMENT," filed May 17, 2002, and now issued as US Patent No. 7,221,381; (3) United States Patent Application Serial-No. 10/215,843 ("the '843 application"), entitled "METHODS AND SYSTEMS FOR SUB-PIXEL RENDERING WITH ADAPTIVE FILTERING," filed August 8, 2002, and now issued as US Patent No. 7,184,066; (4) United States Patent Application Serial-No. 10/379,767 entitled "SYSTEMS AND METHODS FOR TEMPORAL SUB-PIXEL RENDERING OF IMAGE DATA" filed March 4, 2003 and published as United States Patent Application Publication No. 2004/0196302; (5) United States Patent Application Serial-No. 10/379,765 entitled "SYSTEMS AND METHODS FOR MOTION ADAPTIVE FILTERING," filed March 4, 2003 and now issued as US Patent No. 7,167,186; (6) United States Patent Application Serial-No. 10/379,766 entitled "SUB-PIXEL RENDERING SYSTEM AND METHOD FOR IMPROVED DISPLAY VIEWING ANGLES" filed March 4, 2003 and now issued as United States Patent No. 6,917,368;

and (7) United States Patent Application Serial-No. 10/409,413 entitled "IMAGE DATA SET WITH EMBEDDED PRE-SUBPIXEL RENDERED IMAGE" filed April 7, 2003 and published as United States Patent Application Publication No. 2004/0196297, which are hereby incorporated herein by reference in their entirety.

Please replace paragraph [04] with the following rewritten paragraph:

[04] Improvements in gamut conversion and mapping are disclosed in commonly owned and co-pending United States Patent Applications and Patents: (1) United States Patent Application Serial-No. 10/691,200 entitled "HUE ANGLE CALCULATION SYSTEM AND METHODS", filed October 21, 2003 and issued as United States Patent No. 6,980,219; (2) United States Patent Application Serial-No. 10/691,377 entitled "METHOD AND APPARATUS FOR CONVERTING FROM SOURCE COLOR SPACE TO RGBW TARGET COLOR SPACE", filed October 21, 2003 and published as United States Patent Application Publication No. 2005/0083341; (3) United States Patent Application Serial-No. 10/691,396 entitled "METHOD AND APPARATUS FOR CONVERTING FROM A SOURCE COLOR SPACE TO A TARGET COLOR SPACE", filed October 21, 2003 and published as United States Patent Application Publication No. 2005/0083352; and (4) United States Patent Application Serial-No. 10/690,716 entitled "GAMUT CONVERSION SYSTEM AND METHODS" and issued as United States Patent No. 7,176,935 which are all hereby incorporated herein by reference in their entirety.

Please replace paragraph [05] with the following rewritten paragraph:

[05] Additional advantages have been described in (1) United States Patent Application Serial-No. 10/696,235 entitled "DISPLAY SYSTEM HAVING IMPROVED MULTIPLE MODES FOR DISPLAYING IMAGE DATA FROM MULTIPLE INPUT SOURCE FORMATS", filed October 28, 2003 and issued as US Patent No. 7,084,923 (2) United States Patent Application Serial-No. 10/696,026 entitled "SYSTEM AND METHOD FOR PERFORMING IMAGE RECONSTRUCTION AND SUBPIXEL RENDERING TO EFFECT SCALING FOR MULTI-MODE DISPLAY" filed October 28,

2003 and published as United States Patent Application Publication No. 2005/0088385; which are all hereby incorporated by reference. All patent applications mentioned in this specification are hereby incorporated by reference in their entirety.

Please replace paragraph [06] with the following rewritten paragraph:

[06] Additionally, these co-owned and co-pending applications are herein incorporated by reference in their entirety: (1) United States Patent Application Serial No. 10/821,387 ~~[ATTORNEY DOCKET NUMBER 08831.0064]~~ entitled "SYSTEM AND METHOD FOR IMPROVING SUB-PIXEL RENDERING OF IMAGE DATA IN NON-STRIPED DISPLAY SYSTEMS", and published as United States Patent Application Publication No. 2005/0225548; (2) United States Patent Application Serial No. 10/821,353 ~~[ATTORNEY DOCKET NUMBER 08831.0066]~~ entitled "NOVEL SUBPIXEL LAYOUTS AND ARRANGEMENTS FOR HIGH BRIGHTNESS DISPLAYS", and published as United States Patent Application Publication No. 2005/0225574; (3) United States Patent Application Serial No. 10/821,306 ~~[ATTORNEY DOCKET NUMBER 08831.0067]~~ entitled "SYSTEMS AND METHODS FOR IMPROVED GAMUT MAPPING FROM ONE IMAGE DATA SET TO ANOTHER", and published as United States Patent Application Publication No. 2005/0225562; (4) United States Patent Application Serial No. 10/821,388 ~~[ATTORNEY DOCKET NUMBER 08831.0068]~~ entitled "IMPROVED SUBPIXEL RENDERING FILTERS FOR HIGH BRIGHTNESS SUBPIXEL LAYOUTS", and published as United States Patent Application Publication No. 2005/0225563; which are all hereby incorporated by reference. All patent applications mentioned in this specification are hereby incorporated by reference in their entirety.